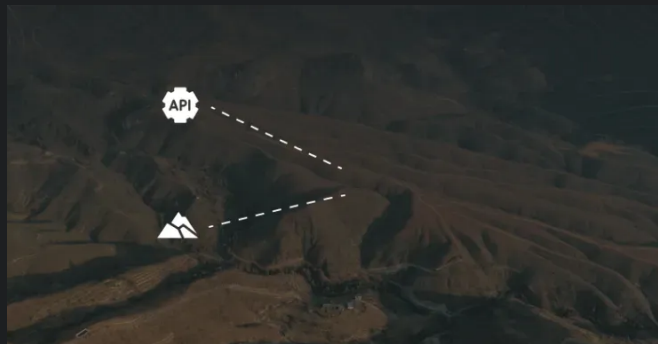




Elevation

Introducing Ambee's Elevation API: Unlocking Insights Into Earth's Altitude

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In the last few weeks, we've made quite a few announcements.

We successfully launched new APIs, including– [Geocoding](#), [Natural Disasters](#), and Smoke Plumes. And very recently, we also unveiled [Ambee webhooks](#).

Well, that's not all. It brings us great pride to bring to you **Elevation by Ambee**. The Elevation API marks the latest in our ever-growing family of APIs that aim to make effective climate action easier. Let's have a look at Ambee's Elevation API.

What is elevation data?

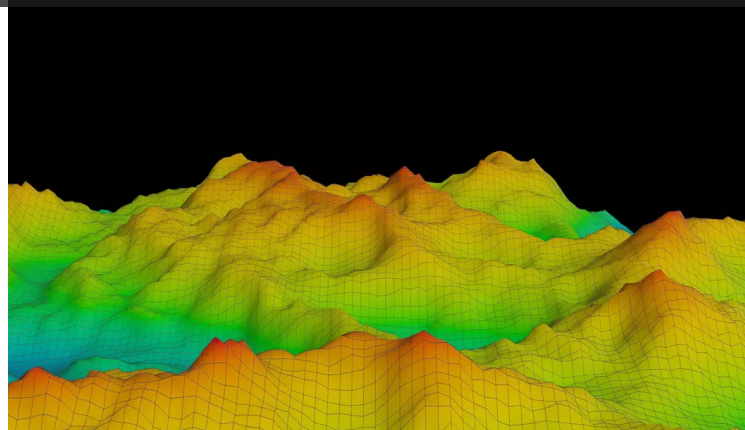
Elevation refers to the height (usually expressed in meters) or vertical distance of a point or object above a specific reference point, typically the Earth's surface. It is a fundamental concept in geography, geology, and cartography, essential for understanding the three-dimensional nature of our planet.

Elevation data, often represented in digital format, provides a detailed and accurate depiction of Earth's topography. This data is crucial for a wide range of applications, from urban planning and land management to environmental monitoring and disaster preparedness.

This type of data is typically acquired through various methods, including satellite-based remote sensing, aerial surveys, and ground-based measurements. The result is a digital elevation model (DEM), a grid-like representation of Earth's surface elevations.

Welcome to Ambee!





DEMs are instrumental in creating topographic maps, simulating terrain for geographic information systems (GIS), and aiding in flood modeling, infrastructure design, and a lot of crucial research.

What is the use of elevation data?

A study from McGill University, Montreal, has revealed that wildfires in the western part of the USA [have started creeping to higher elevations](#) over the last 50 years or so.

It has also been observed that [lower elevations are more prone](#) to rampant wildfires. These kinds of observations can be crucial for disaster prediction and management.

These are just a few examples of how elevation affects major natural events.

Elevation influences a lot of other environmental occurrences, and that includes air quality and wildfires. Therefore, when used together, these datasets mutually enhance their *actionability* and become primed to provide better and richer insights into what is *actually* the state of the environment.

As our world becomes increasingly interconnected, elevation data plays a pivotal role in ensuring accurate navigation, predicting natural disasters like floods and landslides, and optimizing infrastructure development.

With the growing importance of understanding Earth's topography, elevation data continues to empower innovation and decision-making across a multitude of industries and disciplines.

Here are some of the various applications of Elevation API:

How can elevation data be used by various industries?



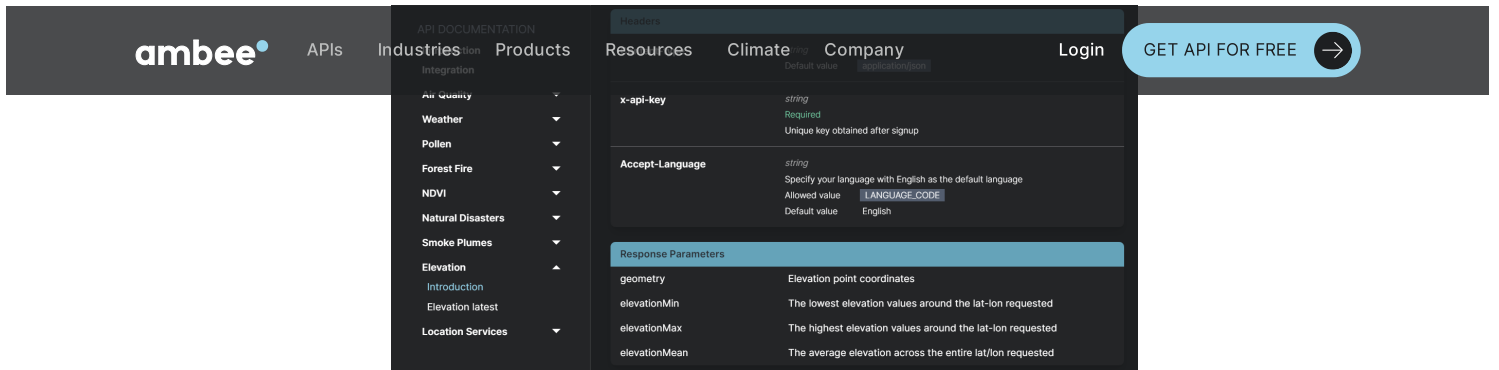
terrain visualizations. This is crucial for urban planning, land development, and understanding natural landscapes.

1. Flood Modeling and Management: It helps predict and mitigate flood risks by mapping potential floodplains, identifying low-lying areas, and assisting in the design of effective flood control infrastructure.
2. Infrastructure Planning: Engineers and city planners use elevation data to design transportation networks, utilities, and infrastructure projects. It ensures that roads, bridges, and buildings are constructed at appropriate elevations to minimize hazards.
3. Environmental Assessment: This data is also crucial in environmental impact assessments, helping to evaluate the impact of development projects on ecosystems, watersheds, and wildlife habitats.
4. Disaster Management: Elevation data supports disaster preparedness and response efforts. It helps identify areas prone to landslides, avalanches, and tsunamis, enabling early warning systems and evacuation planning.
5. Agriculture and Land Use: Farmers can use elevation data for precision agriculture, optimizing irrigation and crop management based on terrain variations. It also assists in land use planning for agriculture and forestry.
6. Renewable Energy: Elevation data informs the placement of wind turbines and solar panels by assessing the wind and solar exposure potential at different elevations, maximizing energy generation.
7. Geological Studies: Geologists can also use elevation data to study geological features such as fault lines, volcanoes, and mountain ranges. It aids in understanding Earth's dynamic processes.

Have a look at what Ambee's Elevation API has to offer 

Exploring Ambee's Elevation API

Ambee's Elevation API provides elevation and altitude information for specific coordinates of the Earth. With it, you can get the lowest, highest, and mean elevation values (in meters) of the desired lat long. This data is available for the entirety of North America. Keep an eye out for this space for more updates as we make advancements.



Response parameters of Ambee's Elevation API

You can try this API out in the next few seconds [here](#)

Get started now

To start with our Elevation API, head over to our [API dashboard](#) and sign up/log in for the Elevation API key. If you want to learn more about the API, explore our comprehensive [documentation](#), including an end-point, sample response, parameters list, and more.

If you have any questions or queries, [reach out to us](#) or leave a comment below!

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Have questions?
Get in touch!

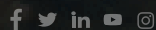
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